

Coast Guard, Dept. of Homeland Security

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Guard to confirm that vital systems and safety features continue to operate in a safe, reliable manner.

NOTE: Normally, these tests are conducted annually.

§ 61.40-10 Test procedure details.

(a) Test procedure documents must be in a step-by-step or checkoff list format. Each test instruction must specify equipment status, apparatus necessary to perform the tests, safety precautions, safety control and alarm set-points, the procedure to be followed, and the expected test result.

(b) Test techniques must not simulate monitored system conditions by mis-adjustment, artificial signals, improper wiring, tampering, or revision of the system unless the test would damage equipment or endanger personnel. In the latter case, the use of a synthesized signal or condition applied to the sensor is acceptable if test equipment is maintained in good working order and is periodically calibrated to the satisfaction of the Officer in Charge, Marine Inspection. Other test techniques must be approved by the Commandant CG-ENG.

[CGD 80-064, 49 FR 32193, Aug. 13, 1984, as amended by CGD 95-072, 60 FR 50463, Sept. 29, 1995; CGD 96-041, 61 FR 50728, Sept. 27, 1996; USCG-2009-0702, 74 FR 49229, Sept. 25, 2009; USCG-2012-0832, 77 FR 59778, Oct. 1, 2012]

PART 62—VITAL SYSTEM AUTOMATION

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AUTHORITY: 46 U.S.C. 3306, 3703, 8105; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; Department of Homeland Security Delegation No. 0170.1.

SOURCE: CGD 81-030, 53 FR 17838, May 18, 1988, unless otherwise noted.

Subpart 62.01—General Provisions

§ 62.01-1 Purpose, preemptive effect.

The purpose of this part is to make sure that the safety of a vessel with automated vital systems, in maneuvering and all other sailing conditions, is equal to that of the vessel with the vital systems under direct manual operator supervision. The regulations in this part have preemptive effect over

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State or local regulations in the same field.

[CGD 81–030, 53 FR 17838, May 18, 1988, as amended by USGD–2006–24797, 77 FR 33874, June 7, 2012]

§ 62.01–3 Scope.

(a) This part contains the minimum requirements for vessel automated vital systems. Specifically, this part contains—

(1) In subpart 62.25, the general requirements for all vital system automation;

(2) In subpart 62.30, the criteria used to evaluate the designed reliability and safety of all automated vital systems;

(3) In subpart 62.35, the minimum additional equipment, configuration, and functional requirements necessary when certain vital systems are automated; and

(4) In subpart 62.50, the minimum additional requirements when automated systems are provided to replace specific personnel or to reduce overall crew requirements.

§ 62.01–5 Applicability.

(a) *Vessels.* This part applies to self-propelled vessels of 500 gross tons and over that are certificated under subchapters D, I, or U and to self-propelled vessels of 100 gross tons and over that are certificated under subchapter H.

(b) *Systems and equipment.* Except as noted in § 62.01–5(c), this part applies to automation of vital systems or equipment that—

(1) Is automatically controlled or monitored;

(2) Is remotely controlled or monitored; or

(3) Utilizes automation for the purpose of replacing specific personnel or to reduce overall crew requirements.

(c) *Exceptions.* This part does not apply to the following systems and equipment unless they are specifically addressed or unless their failure would degrade the safety and reliability of the systems required by this part:

(1) Automatic auxiliary heating equipment (see part 63 of this subchapter).

(2) Steering systems (see subparts 58.25 and 111.93 of this chapter).

(3) Non-vital and industrial systems.

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(4) The communication and alarm systems in part 113 of this chapter.

(d) *Central control rooms.* The requirements of subpart 62.50 only apply to vessels automated to replace specific personnel or to reduce overall crew requirements, except where the main propulsion or ship service electrical generating plants are automatically or remotely controlled from a control room. In this case, § 62.50–20(a)(3) (except the provision in paragraph 62.50–20(a)(3)(ii) relating to electrical power distribution), (b)(3), (c), (e)(1), (e)(2), (e)(4), and (f)(2) apply, regardless of manning.

[CGD 81–030, 53 FR 17838, May 18, 1988, as amended by USCG–2000–7790, 65 FR 58460, Sept. 29, 2000]

Subpart 62.05—Reference Specifications

§ 62.05–1 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. To enforce any edition other than that specified in this section, the Coast Guard must publish notice of change in the FEDERAL REGISTER and the material must be available to the public. All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030 or go to http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. The material is also available for inspection at the U.S. Coast Guard, Office of Design and Engineering Standards (CG–ENG), 2100 2nd St., SW., Stop 7126, Washington, DC 20593–7126, and is available from the sources listed below.

(b) *American Bureau of Shipping (ABS)*, ABS Plaza, 16855 Northchase Drive, Houston, TX 77060:

(1) Rules for Building and Classing Steel Vessels, Part 4 Vessel Systems and Machinery (2003) (“ABS Steel Vessel Rules”), 62.25–30; 62.35–5; 62.35–35; 62.35–40; 62.35–50; 62.50–30; and